

Attorney's Docket: 2003DE410

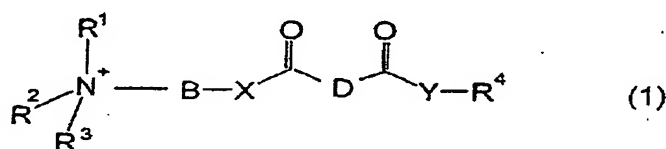
Serial No.: 10/783,153

Art Unit 1714

Response to Restriction Requirement, Dated 01/05/2007

This listing of claims will replace all prior versions, and listings, of claims in the application:

1.(Withdrawn) A method for inhibiting corrosion and gas hydrate formation in mixtures of hydrocarbon and water, said method comprising adding to said mixture a compound of formula (1)



where

R^1, R^2 are each independently C_1 - to C_{22} -alkyl, C_2 - to C_{22} -alkenyl, C_6 - to C_{30} -aryl or C_7 - to C_{30} -alkylaryl,

R^3 is C_1 - to C_{22} -alkyl, C_2 - to C_{22} -alkenyl, C_6 - to C_{30} -aryl or C_7 - to C_{30} -alkylaryl, $-\text{CHR}^5-\text{COO}^-$ or $-\text{O}^-$,

R^4 is M, hydrogen or an organic radical having from 1 to 100 carbon atoms,

B is a straight-chain or branched C_1 - to C_{10} -alkylene group,

D is an ethylene group substituted by an organic radical having from 1 to 600 carbon atoms,

X, Y are each independently O or NR^6 ,

R^5, R^6 are each independently hydrogen, C_1 - to C_{22} -alkyl, C_2 - to C_{22} -alkenyl, C_6 - to C_{30} -aryl or C_7 - to C_{30} -alkylaryl, and

M is a cation.

2.(Withdrawn) The method of claim 1, wherein B is a C_2 - to C_4 -alkylene group.

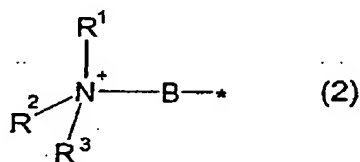
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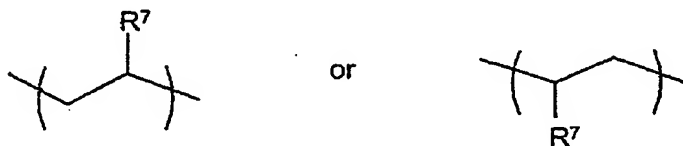
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- 3.(Withdrawn) The method of claim 1, wherein R^1 and R^2 are each independently an alkyl or alkenyl group of from 2 to 14 carbon atoms.
- 4.(Withdrawn) The method of claim 1, wherein R^3 is an alkyl or alkenyl group having from 1 to 12 carbon atoms.
- 5.(Withdrawn) The method of claim 1, wherein R^5 and R^6 are hydrogen.
- 6.(Withdrawn) The method of claim 1, wherein R^4 is a radical of the formula (2)



where R^1 , R^2 , R^3 and B are each as defined in claim 1.

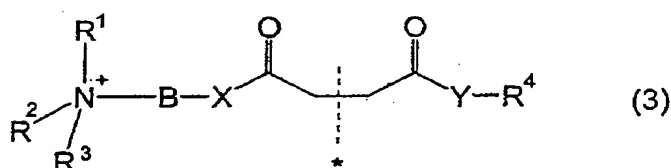
- 7.(Currently Amended) The method of claim 1, wherein D is a structural unit of the formula



in which R^7 is C_2 - to C_{100} -alkyl or alkenyl radicals.

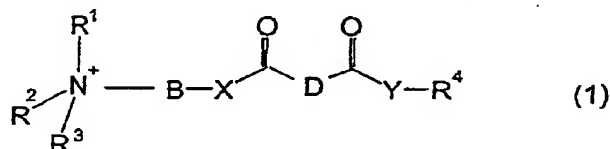
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8.(Withdrawn) The method of claim 7, wherein R^7 is structural units of the formula (3).



where R^1 , R^2 , R^3 , R^4 , B, X and Y are each as defined in claim 1.

9.(Previously Presented) A compound of formula (1)



where

R^1 , R^2 are each independently C_1 - to C_{22} -alkyl, C_2 - to C_{22} -alkenyl, C_6 - to C_{30} -aryl or C_7 - to C_{30} -alkylaryl;

R^3 is C_1 - to C_{22} -alkyl, C_2 - to C_{22} -alkenyl, C_6 - to C_{30} -aryl or C_7 - to C_{30} -alkylaryl, $-CHR^5-COO^-$ or $-O^-$,

R^4 is M, hydrogen or an organic radical having from 1 to 100 carbon atoms,

B is a straight-chain or branched C_1 - to C_{10} -alkylene group,

D is an ethylene group substituted by an organic radical having from 1 to 600 carbon atoms,

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X, Y are each independently O or NR⁶,

R⁵, R⁶ are each independently hydrogen, C₁- to C₂₂-alkyl, C₂- to C₂₂-alkenyl, C₆- to C₃₀-aryl or C₇- to C₃₀-alkylaryl, and

M is a cation.

10.(Withdrawn) The method of claim 1, wherein R⁴ contains hetero atoms.

11.(Previously Presented) The compound of claim 9, wherein R⁴ contains hetero atoms.